

## **ABSTRACT OF THE DISCLOSURE**

A spectrum analyzer for the simultaneous analysis of electromagnetic radiation delivered to it from either multiple sources or from a linear segment along a source surface, and arranged as either continuous or discrete set of points along a short piece of a straight line referred to herein as a slit. In one embodiment of  
5 the invention, the optical design of the dispersing part of the analyzer provides essentially stigmatic spots for any spectral band up to one octave wide in the spectral range of about 400nm to about 2500nm.